

MS4 General Permit
Town of West Hartford 2019 Annual Report
Existing MS4 Permittee
Permit Number GSM 000001
[January 1, 2019 – December 31, 2019]

This report documents West Hartford's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2019 to December 31, 2019.

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

1.1 BMP Summary

| BMP | Status | Activities in current reporting period (if needed, more space available after this table) | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------------------|---|---|--|---------|---|--|
| 1-1 Implement public education and outreach | Ongoing | <p>Provided stormwater educational materials on the Town website and at Town events.</p> <p>MDC Household Hazardous Waste Collections were held in West Hartford on June 23, 2019 and Sept 21, 2019</p> <p>Advertised yard waste collection and collection on Town website and by email</p> | Provide stormwater information to residents and the general public | Renee McCue, Public Relations Specialist | Ongoing | 2019 tasks complete | <p>Town parks have signs to educate on picking up pet waste</p> <p>Stormwater brochures were distributed at the Public Works Open House in May and Celebrate West Hartford in June</p> |
| 1-2 Address education/ outreach for pollutants of concern* | Complete/ Ongoing | Created stormwater educational materials to target pollutants of concern. | Identify pollutants of concern and incorporate applicable materials | Renee McCue, Public Relations Specialist | Ongoing | 2019 tasks complete | |

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

Update documents on Town Stormwater website, as needed.

Participate in MDC Household Hazardous Collection.

Continue with pet waste education on Public Works website and in Town Parks with signs.

Distribute stormwater brochure at Town offices, meetings, and events.

Perform Yard Waste Collection twice per year, collect 30-gallon brown leaf bags in fall in spring. Drop-off available for yard waste. Advertise to public on website and with emails.

1.3 Details of activities implemented to educate the community on stormwater

| Program Element/Activity | Audience (and number of people reached) | Topic(s) covered | Pollutant of Concern addressed (if applicable) | Responsible dept. or partner org. |
|--|---|---|--|---|
| Distributed tri-fold stormwater brochure | Residents | General stormwater, pollutants, what you can do to help | Bacteria | Renee McCue, Public Relations Specialist |
| Stormwater Website developed | Residents and general public | Multiple topics | Bacteria, Nitrogen, Phosphorus | Town Engineering |
| Lawn care: Yard Waste Collection in the spring and fall | Residents | Lawn care | | Town DPW |
| Participated in MDC Household Hazardous Collection | Town-wide | Hazardous waste management | | Hartford Metropolitan District Commission |

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------|--|---|---------------------------------|--------------|---|---|
| 2-1 Final Stormwater Management Plan publicly available | Complete | Stormwater Management Plan available to the public on Town's website | Make the Stormwater Management Plan available to the public | Duane Martin, Town Engineer | Ongoing | Apr 3, 2017 | No updates to the Stormwater Management Plan have been made |
| 2-2 Comply with public notice requirements for Annual Reports | Ongoing | Latest annual report will be available to the public on Town's website | Make the latest annual report available to the public | Duane Martin, Town Engineer | Feb 15, 2019 | Feb 15, 2019 | No public comments were received in 2019 |

2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

Post Annual Report for public comment on Feb 15, 2020.

Participate in MDC Household Hazardous Waste Collection program, hosted in West Hartford annually.

Perform Yard Waste Collection, twice per year, collect 30-gallon brown leaf bags in fall in spring. Drop-off available for yard waste. Advertise to public on website and emails.

2.3 Public Involvement/Participation reporting metrics

| Metrics | Implemented | Date | Posted |
|---|-------------|--------------|---|
| Availability of the Stormwater Management Plan to public | Yes | Apr 3, 2017 | https://www.westhartfordct.gov/gov/departments/engineering/stormwater.asp |
| Availability of Annual Report announced to public | Yes | Feb 15, 2020 | https://www.westhartfordct.gov/gov/departments/engineering/stormwater.asp |

3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------|--|-------------------------------------|--------------------------------------|---------------|---|--|
| 3-1 Develop written IDDE program | Complete | | | Duane Martin, Town Engineer | Jul 1, 2018 | July 31, 2018 | IDDE Plan complete, no updates in 2019 |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas | Complete | | | Duane Martin, Town Engineer | Jul 1, 2019 | Nov 2018 | Mapping complete and on Town website for public use |
| 3-3 Implement citizen reporting program | Ongoing | Implemented citizen reporting program | Implement citizen reporting program | John Phillips, Public Works Director | Ongoing | Implementation is ongoing | Mobile 311 system used to track stormwater issues since Nov 2018 |
| 3-4 Establish legal authority to prohibit illicit discharges | Complete | | | Corporation Counsel | Jul 1, 2018 | Effective June 30, 2018 | |
| 3-5 Develop record keeping system for IDDE tracking | Complete | | | Duane Martin, Town Engineer | Jul 1, 2017 | | Mobile 311 and tracking spreadsheet from IDDE Plan |
| 3-6 Address IDDE in areas with pollutants of concern | Complete | | | Duane Martin, Town Engineer | Not specified | July 1, 2018 | Program developed |

3.2 Describe any IDDE activities planned for the next year, if applicable.

The Town will continue to do investigations based on prioritization methodology in the IDDE Plan. The first priority will be outfalls where the public, consultant stormwater outfall inspectors, and/or Town staff have noted a visual or olfactory concern.

Maintain master IDDE tracking spreadsheet.

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

| Date of Report | Location / suspected source | Response taken |
|----------------|---|---|
| June 4, 2019 | Town Staff was made aware of sediment flow into Trout Brook just upstream of New Park Avenue. | Engineering and Planning Division staff investigated the area and found 3 locations contributing to the sediment flow. Sediment was exiting the properties at 637 and 647 New Park Avenue. Both of these properties were under construction and lacking adequate erosion and sedimentation controls. The property owners were notified of the sediment flow and corrective measures were in place by June 6, 2019. Sediment was also flowing due to a utility project on Woodlawn Street. During the construction, a water service broke causing sediment from the construction trench to flow into the drainage system. The water service was shut off, repairs made, which addressed the problem on June 6, 2019. |
| July 1, 2019 | Grease was observed in the drainage system near 37 and 43 LaSalle Road. | The property owner was notified to cease and desist from depositing grease into the drainage system by the West Hartford-Bloomfield Health District (WHBHD). WHBHD required the property owner to clean the drainage system. The cleaning was completed on July 5, 2019. |

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.

| Location | Date and duration of occurrence | Discharge to MS4 or surface water | Estimated volume discharged (Gallons) | Known or suspected cause / Responsible party | Corrective measures planned and completed | Sampling data (if applicable) |
|---------------------------------|---------------------------------|-----------------------------------|---------------------------------------|--|--|-------------------------------|
| 107 Hillcrest Avenue | 2/27/2013 | Surface Water | 3,000,000 | Metropolitan District Commission (MDC) | Install Sewer Conveyance and Storage Tunnel to eliminate this SSO (Tunnel) | |
| Opposite 212 Trout Brook Drive | 2/27/2013 | Surface Water | 161,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 2/27/2013 | Surface Water | 2,045,000 | MDC | Tunnel | |

| | | | | | | |
|---------------------------------|--------------------------|---------------|------------|-----|--------|--|
| 107 Hillcrest Avenue | 3/12/2013 | Surface Water | 1,755,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 3/12/2013 | Surface Water | 69,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 3/12/2013 | Surface Water | 1,000,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 6/7/2013 | Surface Water | 2,173,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 6/7/2013 | Surface Water | 692,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 6/7/2013 | Surface Water | 3,911,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 6/11/2013 | Surface Water | 7,776,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 6/11/2013 | Surface Water | 1,602,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 6/11/2013 | Surface Water | 10,437,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 6/18/2013 | Surface Water | 24,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 11/27/2013 | Surface Water | 190,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 11/27/2013 | Surface Water | 183,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 12/30/2013 | Surface Water | 6,110 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 1/9/2014 | Surface Water | 638,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 2/6/2014 | Surface Water | 854,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/20/2014 | Surface Water | 108,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/29/2014- 4/2/2014 | Surface Water | 5,329,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 3/29/2014-4/2/2014 | Surface Water | 4,233,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 4/30/2014 | Surface Water | 489,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 4/30/2014-5/3/2014 | Surface Water | 3,473,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 5/1/2014 | Surface Water | 68,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 4/30/2014-5/2/2014 | Surface Water | 4,283,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 5/17/2014 | Surface Water | 797,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 12/9/2014- 12/11/2014 | Surface Water | 1,545,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 12/9/2014 | Surface Water | 1,674,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 12/9/2014 | Surface Water | 128,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 1/18/2015 | Surface Water | 193,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/11/2015 | Surface Water | 61,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/14/2014-3/17/2014 | Surface Water | 653,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/26/2014-3/28/2014 | Surface Water | 439,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 4/20/2015-4/22/2015 | Surface Water | 2,055,000 | MDC | Tunnel | |

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|---------------------------------|---------------------|-----------------|------------------------|-----|---|--|
| Southerly end of Chelton Avenue | 4/20/2014-4/21/2014 | Surface Water | 2,569,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 4/20/2015 | Surface Water | 175,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 1/10/2016 | Surface Water | 194,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 2/16/2016 | Surface Water | 72,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 2/24/2016 | Surface Water | 2,426,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 2/24/2016 | Surface Water | 2,319,000 | MDC | Tunnel | |
| Opposite 212 Trout Brook Drive | 2/25/2016 | Surface Water | 110,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 3/31/2017 | Surface Water | 1,797,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 4/1/2017 | Surface Water | 1,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 4/4/2014 | Surface Water | 3,003,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 4/4/2017 | Surface Water | 344,000 | MDC | Tunnel | |
| Southerly end of Chelton Avenue | 4/6/2017 | Surface Water | 707,000 | MDC | Tunnel | |
| 107 Hillcrest Avenue | 5/5/2017 | Surface Water | 53,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 10/25/2017 | Surface Water | 500,000 - 1,000,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 10/25/2017 | Surface Water | 100,000 - 500,000 | MDC | Tunnel | |
| 67/69 Levesque Ave | 10/29/2017 | Basement Backup | 100 - 1,000 | MDC | MDC CMOM - Jetted mainline sewer 10/29/17 | |
| SSO (NTS - Hillcrest Ave) | 10/29/2017 | Surface Water | 1,000,000 + | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 10/29/2017 | Surface Water | 1,000,000 + | MDC | Tunnel | |
| Trout Brook Dr N/O Quaker La | 10/29/2017 | Surface Water | 100,000 - 500,000 | MDC | Tunnel | |
| 101 Woodlawn St | 1/6/2018 | Surface Water | 0 | MDC | Caused by water main break that was repaired | |
| West of Hillcrest Ave | 1/12/2018 | Surface Water | 1,062,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 1/12/2018 | Surface Water | 334,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 2/11/2018 | Surface Water | 4,991,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 2/11/2018 | Surface Water | 14,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 2/25/2018 | Surface Water | 5,564,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 3/2/2018 | Surface Water | 7,136,000 | MDC | Tunnel | |

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|---|------------|--------------------------------|---------------------|-----|--|--|
| Talcott Rd and Chelton Ave | 3/2/2018 | Surface Water | 207,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 4/16/2018 | Surface Water | 15,676,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 4/16/2018 | Surface Water | 4,641,00 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 4/16/2018 | Surface Water | 1,645,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 4/25/2018 | Surface Water | 1,074,00 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 4/26/2018 | Surface Water | 29,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 6/28/2018 | Surface Water | 10,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 8/4/2018 | Surface Water | 1,101,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 8/14/2018 | Surface Water | <1,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 8/24/2018 | Surface Water | <25,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 9/3/2018 | Surface Water | <50,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 9/12/2018 | Surface Water | 11,000 | MDC | Tunnel | |
| 17, 22 Mozart St | 9/15/2018 | Basement Backup | <100 | MDC | CMOM Program - Jetted mainline sewer 9/15/18 | |
| West of Hillcrest Ave | 9/25/2018 | Surface Water | 2,789,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 9/25/2018 | Surface Water | 574,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 9/25/2018 | Surface Water | 1,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 9/26/2018 | Surface Water | 574,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 9/28/2018 | Surface Water | 6,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 10/2/2018 | Surface Water | 8,286,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 10/2/2018 | Surface Water | 128,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 10/2/2018 | Surface Water | <1,000 | MDC | Tunnel | |
| Basements of multiple homes (~21) in Linbrook Rd area | 10/3/2018 | Basement Backup, Surface Water | 500,000 - 1,000,000 | MDC | CMOM Program - Repaired mainline sewer 10/2018 | |
| Linbrook Rd | 10/11/2018 | Surface Water | <1,000 | MDC | CMOM Program | |
| Talcott Rd and Chelton Ave | 11/3/2018 | Surface Water | 4,500,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 11/3/2018 | Surface Water | 9,171,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 11/3/2018 | Surface Water | 471,000 | MDC | Tunnel | |
| 186 Main St | 11/3/2018 | Basement Backup | <1,000 | MDC | CMOM Program | |
| West of Hillcrest Ave | 11/6/2018 | Surface Water | 4,075,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 11/9/2018 | Surface Water | 15,896,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 11/13/2018 | Surface Water | 9,607,000 | MDC | Tunnel | |

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|-------------------------------------|------------|-----------------|----------------------|-----|---|--|
| Talcott Rd and Chelton Ave | 11/13/2018 | Surface Water | 1,245,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 11/13/2018 | Surface Water | 10,000 | MDC | Tunnel | |
| 32, 38 Lockwood Terrace | 11/20/2018 | Basement Backup | <100 | MDC | CMOM Program - Jetted mainline sewer 11/20/18 | |
| 24 Lockwood Terrace | 11/26/2018 | Basement Backup | <100 | MDC | CMOM Program - Jetted mainline sewer 11/26/18 | |
| West of Hillcrest Ave | 11/26/2018 | Surface Water | 8,521,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 11/26/2018 | Surface Water | 91,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 12/2/2018 | Surface Water | 2,630,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 12/21/2018 | Surface Water | 11,181,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 12/21/2018 | Surface Water | 500,000 to 1,000,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 12/21/2018 | Surface Water | 180,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 1/1/2019 | Surface Water | 151,000 | MDC | Tunnel | |
| Talcott Rd and Chelton Ave | 1/5/2019 | Surface Water | 26,000 | MDC | Tunnel | |
| West of Hillcrest Ave | 1/5/2019 | Surface Water | 3,788,000 | MDC | Tunnel | |
| 16, 26 Hammick Rd | 1/5/2019 | Basement Backup | <100 | MDC | CMOM Program - Jetted mainline sewer 1/5/19 | |
| Talcott Rd and Chelton Ave | 1/24/2019 | Surface Water | 4,418,000 | MDC | Tunnel | |
| Near 204 Trout Brook Dr | 1/24/2019 | Surface Water | 782,000 | MDC | Tunnel | |
| Siphon inlet chamber | 1/24/2019 | Surface Water | 25,000 to 50,000 | MDC | CMOM Program | |
| West of Hillcrest Ave | 1/24/2019 | Surface Water | 27,669,000 | MDC | Tunnel | |
| Ringgold St | 1/24/2019 | Surface Water | <25,000 | MDC | CMOM Program | |
| Hillcrest Ave (NTS) | 1/1/2019 | Surface Water | 151,000 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 1/5/2019 | Surface Water | 30,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 1/5/2019 | Surface Water | 3,700,000 | MDC | Tunnel | |
| 16 and 26 Hammick Rd, West Hartford | 1/5/2019 | Surface Water | <100 | MDC | Cleaned sewer | |
| Fox Meadow Lane, West Hartford | 1/15/2019 | Surface Water | - | MDC | - | |
| Talcott Rd (CTS-3) | 10/27/2019 | Surface Water | 7,000 | MDC | Tunnel | |
| 59-61 Levesque Ave | 10/27/2019 | Surface Water | <100 | MDC | Main sewer flushed by jet truck and stoppage relieved | |
| Hillcrest Ave (NTS) | 11/24/2019 | Surface Water | 21,000 | MDC | Tunnel | |

| | | | | | | |
|---|---------------------|---------------|------------|-----|------------------------------|--|
| NTS, CTS-2, CTS-3, Ringgold St, Fox Meadow Lane | 1/24/2019 | Surface Water | 34,000,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 2/24/2019 | Surface Water | 1,200,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 3/15/2019 | Surface Water | 500,000 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 4/15/2019 | Surface Water | 3,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 4/13/19-4/16/19 | Surface Water | 4,860,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 4/20/19-4/23/19 | Surface Water | 3,000,000 | MDC | Tunnel | |
| Trout Brook Dr (CTS-2) | 4/26/19-4/27/19 | Surface Water | 100,000 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 4/26/19-4/27/19 | Surface Water | 4,600,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 4/26/19 – 4/30/19 | Surface Water | 17,000,000 | MDC | Tunnel | |
| 844-846 Quaker Lane, West Hartford | 4/29/2019 | Surface Water | 200 | MDC | Regular maintenance of sewer | |
| Hillcrest Ave (NTS) | 5/6/2019 | Surface Water | 92,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 5/12/2019 | Surface Water | 5,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 5/13/2019 | Surface Water | 4,760 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 8/7/2019 | Surface Water | 1,100,000 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 8/7/2019 | Surface Water | 700,000 | MDC | Tunnel | |
| Trout Brook Dr (CTS-2) | 8/7/2019 | Surface Water | 200,000 | MDC | Tunnel | |
| 1018/1028 Trout Brook Dr, West Hartford | 8/16/2019 | Surface Water | <10 | MDC | Cleaned grease | |
| Ringgold @ Gillette St, West Hartford | 8/22/2019 | Surface Water | <25,000 | MDC | Removal of excess flow | |
| Trout Brook Dr (CTS-2) | 12/9/2019 | Surface Water | < 100 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 12/9/2019 | Surface Water | 1,400,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 12/9/19 - 12/11/19 | Surface Water | 10,400,000 | MDC | Tunnel | |
| Trout Brook Dr (CTS-2) | 12/14/2019 | Surface Water | 183,000 | MDC | Tunnel | |
| Talcott Rd (CTS-3) | 12/14/19 – 12/15/19 | Surface Water | 5,900,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 12/14/19 – 12/17/19 | Surface Water | 7,800,000 | MDC | Tunnel | |
| Hillcrest Ave (NTS) | 12/30/2019 | Surface Water | 6,200,000 | MDC | Tunnel | |

3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

Reports received through Mobile 311 or other pathways are sent to the Town Engineer for tracking.

3.6 Provide a summary of actions taken to address septic failures using the table below.

| Location and nature of structure with failing septic systems | Actions taken to respond to and address the failures | Impacted waterbody or watershed, if known |
|--|--|---|
| 64 High Ridge Road | Tank and leaching field replaced | |
| 18 The Crossways | Tank and leaching field replaced | |
| 14 Dodge Drive | Tank replacement | |
| 11 Stonebridge Lane | Distribution Box and pipe replacement | |
| 51 Mountain Farm Road | Distribution Box and pipe replacement | |

3.7 IDDE reporting metrics

| Metrics | |
|--|---------------|
| Estimated or actual number of MS4 outfalls | ~450 |
| Estimated or actual number of interconnections | 22 |
| Outfall mapping complete | 100% |
| Interconnection mapping complete | 98% |
| System-wide mapping complete (detailed MS4 infrastructure) | 100% |
| Outfall assessment and priority ranking | 100% |
| Dry weather screening of all High and Low priority outfalls complete | 286 |
| Catchment investigations complete | 0 (3 started) |
| Estimated percentage of MS4 catchment area investigated | 0% |

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).

An overview of IDDE was presented to Town staff in a powerpoint presentation with a focus on identifying and reporting illicit connections. The Town has hired a consultant to work with DPW staff on IDDE investigations, which provides Town staff with experience performing field investigations.

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

4.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|---------|---|-----------------|---------------------------------|-------------|---|---|
| 4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit | Ongoing | Updated legal authority | | Corporation Counsel | Jul 1, 2019 | Jul 1, 2020 | Enforcing existing regulations |
| 4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval | Ongoing | Implemented interdepartmental coordination plan | | Todd Dumais, Town Planner | Ongoing | Ongoing | Development Complete |
| 4-3 Review site plans for stormwater quality concerns | Ongoing | Performed site plan reviews for stormwater quality concerns | | Todd Dumais, Town Planner | Ongoing | Ongoing | |
| 4-4 Conduct site inspections | Ongoing | Performed site inspections | | Todd Dumais, Town Planner | Ongoing | Ongoing | |
| 4-5 Implement procedure to allow public comment on site development | Ongoing | Projects are listed on P&Z website | | Todd Dumais, Town Planner | Ongoing | Ongoing | Procedure implemented, notification ongoing |
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit | Ongoing | Implemented a procedure to notify developers of DEEP construction stormwater permit | | Todd Dumais, Town Planner | Ongoing | Ongoing | Procedure implemented, notification ongoing |

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

Continue to advance process of obtaining additional legal authority.

Continue implement interdepartmental coordination.

Continue site inspections: Town zoning enforcement officer on smaller projects; third party inspection on larger projects.

Update permit forms on website for developers

5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

5.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------|---|---|---|-------------------------------|---|--------------------|
| 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning | Ongoing | Evaluated current regulations and develop regulations to establish legal authority | New regulations | Todd Dumais, Town Planner | Jul 1, 2021 | Jul 1, 2021 | |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects | Ongoing | Enforced current regulations | Enforce current regulations | Todd Dumais, Town Planner | Ongoing beginning Jul 1, 2019 | Ongoing | |
| 5-3 Identify retention and detention ponds in priority areas | Ongoing | Town began to compile a list of retention and detention ponds with a description, and party responsible for maintenance | Develop long-term maintenance plan | Duane Martin, Town Engineer | Jul 1, 2019 | Jul 1, 2020 | |
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures | Ongoing | Town began implementation of stormwater basin maintenance | Maintain and track stormwater basin maintenance | Duane Martin, Town Engineer John Phillips, Public Works Director | Ongoing beginning Jul 1, 2019 | Ongoing | |
| 5-5 DCIA mapping | Complete | Calculated baseline DCIA for each outfall | Summary table of DCIA information | Duane Martin, Town Engineer | Jul 1, 2020 | Sept 2019 | |
| 5-6 Address post-construction issues in areas with pollutants of concern | Ongoing | Identified projects in catchment areas that discharge to impaired waters | Summary table of catchments that discharge to impaired waters | Todd Dumais, Town Planner Duane Martin, Town Engineer | Not specified | Ongoing | |

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

Continue to advance process of obtaining additional legal authority.

Continue to identify retention and detention ponds in the priority area.

Continue to maintain Town-owned retention basins and detention basins.

5.3 Post-Construction Stormwater Management reporting metrics

| Metrics | |
|---|----------------------------------|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | xx acres |
| DCIA disconnected (redevelopment plus retrofits) | acres this year / acres total |
| Retrofits completed | 0 |
| DCIA disconnected | % this year / % total since 2012 |
| Estimated cost of retrofits | \$0 |
| Detention or retention ponds identified | # this year /# total |

5.4 Briefly describe the method to be used to determine baseline DCIA.

The methodology to be used for determining DCIA is to delineate the catchments to each outfall (this is what is taking place now), evaluate the connectivity level of each catchment, and then calculate DCIA using what is recommended by CT NEMO option 2. See attached link. This will be supplemented by option #3 for catchments/basins that are near the 11% cut off.

<https://nemo.uconn.edu/ms4/tasks/mapping.htm>

6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

6.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|---------|---|--|--|-------------------------------|---|---|
| 6-1 Develop/implement formal employee training program | Ongoing | Performed employee training | Complete annual staff training | John Phillips, Public Works Director | Ongoing | Ongoing | 2019: Jan 16, 2020 |
| 6-2 Implement MS4 property and operations maintenance | Ongoing | Implemented SOPs | Tracking of maintenance with prioritization | John Phillips, Public Works Director | Ongoing beginning Jul 1, 2018 | Ongoing | SOPs developed on lawn care, sweeping, catch basin cleaning, herbicides |
| 6-3 Implement coordination with interconnected MS4s | Ongoing | Identified contacts at interconnected MS4s, including CT DOT | Identify and contact interconnected MS4s | Duane Martin, Town Engineer | Not specified | Ongoing | In progress – identifying correct contact people |
| 6-4 Develop/implement program to control other sources of pollutants to the MS4 | Ongoing | Developed and implemented pollutant source control program | Develop and implement pollutant source control program | Duane Martin, Town Engineer | Not specified | Ongoing | |
| 6-5 Evaluate additional measures for discharges to impaired waters* | Ongoing | Developed and implemented procedures for reducing discharges to impaired waters | Develop turf management and source management program | John Phillips, Public Works Director | Not specified | Ongoing | |
| 6-6 Track projects that disconnect DCIA | Ongoing | Tracked DCIA percentage | Track DCIA percentage | Todd Dumais, Town Planner Duane Martin, Town Engineer | Ongoing | Ongoing | |
| 6-7 Implement infrastructure repair/rehab program | Ongoing | Evaluated infrastructure repair and rehabilitated MS4 infrastructure | Evaluate MS4 infrastructure and develop a repair/rehab program | Duane Martin, Town Engineer | Jul 1, 2021 | Ongoing | Through the Capital Improvement Planning: annual budget allocates funds for stormwater projects |
| 6-8 Develop/implement plan to identify/prioritize retrofit projects | Ongoing | Identified projects to reduce DCIA to determine if retrofit projects will be needed | Track projects that reduce DCIA | Todd Dumais, Town Planner Duane Martin, Town Engineer | Jul 1, 2020 | Ongoing | |

| | | | | | | | |
|---|-------------|--|---|--|-------------------------------|-------------|--|
| 6-9 Implement retrofit projects to disconnect 2% of DCIA | Not Started | | | Todd Dumais, Town Planner Duane Martin, Town Engineer | Jul 1, 2022 | Jul 1, 2022 | |
| 6-10 Develop/implement street sweeping program | Ongoing | Perform annual street sweeping | Perform annual street sweeping | John Phillips, Public Works Director | Ongoing beginning Jul 1, 2017 | Ongoing | |
| 6-11 Develop/implement catch basin cleaning program | Ongoing | Developed and implemented catch basin cleaning and inspection procedures | Perform prioritized annual catch basin cleaning | John Phillips, Public Works Director | Ongoing beginning Jul 1, 2020 | Ongoing | |
| 6-12 Develop/implement snow management practices | Ongoing | Implemented snow management measures and practices | Track snow management information | John Phillips, Public Works Director | Ongoing beginning Jul 1, 2018 | Ongoing | SOP for snow management previously developed |

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

Employee training with Town staff focused on engineering, planning, and health department

Coordinate with interconnected MS4s

Continue to implement turf management program

Track DCIA percentage

Repair and rehabilitated MS4 infrastructure

Continue annual street sweeping

Continue annual catch basin cleaning

Continue to implement snow management practices

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

| Metrics | |
|--|-----------|
| Employee training provided for key staff | 1/16/2020 |
| Street sweeping | |
| | |
| Curb miles swept | miles |

| Volume (or mass) of material collected | lbs or tons |
|---|-----------------------|
| Catch basin cleaning | |
| Total catch basins in priority areas | ~1,770 |
| Total catch basins in MS4 | ~6,500 |
| Catch basins inspected | 2,324 |
| Catch basins cleaned | 370 |
| Volume (or mass) of material removed from all catch basins | 92.5 tons |
| Volume removed from catch basins to impaired waters (if known) | unknown |
| Snow management | |
| Type(s) of deicing material used | Treated salt / salt |
| Total amount of each deicing material applied | 3,662 tons / 600 tons |
| Type(s) of deicing equipment used | |
| Lane-miles treated | 42,620 miles |
| Snow disposal location | |
| Staff training provided on application methods & equipment | Nov 2019 |
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |
| Reduction in application of fertilizers (since start of permit) | lbs or % |
| Reduction in turf area (since start of permit) | acres |
| Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) | |
| Cost of mitigation actions/retrofits | \$0 |

6.4 Catch basin cleaning program

| |
|---|
| Provide any updates or modifications to your catch basin cleaning program |
| The catch basin optimization plan is an informal plan that is being documented through the work order system. A part-time employee inspected catch basins to develop a baseline for future catch basin cleaning; catch basins that are found to be greater than 50% full are put on a list to be cleaned. |

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

The Town is identifying existing and proposed public and private projects to meet the 2% DCIA reduction.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

The Town is determining what % DCIA disconnection will be achieved through existing and proposed redevelopment projects.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

The Town has not yet initiated a retrofit program for future years.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus ☐ Bacteria ☒ Mercury ☐ Other Pollutant of Concern ☐

1.2 Describe program status.

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

Outfall screening and sampling during wet and dry weather has begun, a summary of the results is below.

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

2.1 Screening data

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data.

2019 Data

| Outfall ID | Date of Observation | Parameter | E. Coli cfu/100mL | Name of Laboratory Used | Follow-up required? |
|------------|---------------------|-----------|-------------------|-------------------------|---------------------|
| OF-2401-2 | 10/14/2019 | Bacteria | 350 | Phoenix | No |
| OF-5641-3 | 10/14/2019 | Bacteria | <10 | Phoenix | No |
| OF-0181-8 | 10/14/2019 | Bacteria | 2760 | Phoenix | Yes |
| OF-5641-20 | 10/14/2019 | Bacteria | <10 | Phoenix | No |
| OF-3321-2 | 10/14/2019 | Bacteria | 73 | Phoenix | No |
| OF-2361-2 | 10/25/2019 | Bacteria | 10 | Phoenix | No |
| OF-2361-3 | 10/25/2019 | Bacteria | 201 | Phoenix | No |
| OF-4081-1 | 10/29/2019 | Bacteria | 158 | Phoenix | No |
| OF-4081-2 | 10/29/2019 | Bacteria | 355 | Phoenix | No |
| OF-184-57 | 10/29/2019 | Bacteria | 1660 | Phoenix | Yes |
| OF-0311-4 | 10/29/2019 | Bacteria | 538 | Phoenix | Yes |
| OF-4501-1 | 11/11/2019 | Bacteria | 10 | Phoenix | No |
| OF-4501-3 | 11/11/2019 | Bacteria | 10 | Phoenix | No |
| OF-4501-4 | 11/11/2019 | Bacteria | 19900 | Phoenix | Yes |
| OF-6281-5 | 11/14/2019 | Bacteria | 10 | Phoenix | No |

| | | | | | |
|-----------|------------|----------|------------------|---------|-----|
| OF-1461-3 | 11/14/2019 | Bacteria | <10 | Phoenix | No |
| OF-1521-1 | 11/14/2019 | Bacteria | <10 | Phoenix | No |
| OF-4901-3 | 11/14/2019 | Bacteria | <10 | Phoenix | No |
| OF-1661-1 | 11/20/2019 | Bacteria | 7270 | Phoenix | Yes |
| OF-4901-1 | 11/20/2019 | Bacteria | 933 | Phoenix | Yes |
| OF-0171-1 | 11/20/2019 | Bacteria | 216 | Phoenix | No |
| OF-4581-2 | 11/20/2019 | Bacteria | >24200 | Phoenix | Yes |
| OF-4311-1 | 11/20/2019 | Bacteria | 0 | Phoenix | No |
| OF-4631-1 | 11/20/2019 | Bacteria | 24200 | Phoenix | Yes |
| OF-6211-1 | 11/21/2019 | Bacteria | <10 | Phoenix | No |
| OF-6211-3 | 11/21/2019 | Bacteria | 100 | Phoenix | No |
| OF-3961-1 | 11/21/2019 | Bacteria | 850 | Phoenix | Yes |
| OF-2991-6 | 11/21/2019 | Bacteria | 200 | Phoenix | No |
| OF-1029-1 | 11/21/2019 | Bacteria | 246 | Phoenix | No |
| OF-4701-1 | 11/21/2019 | Bacteria | 200 | Phoenix | No |
| OF-0741-2 | 11/22/2019 | Bacteria | 9800 | Phoenix | Yes |
| OF-0741-3 | 11/22/2019 | Bacteria | 213 | Phoenix | No |
| OF-5311-2 | 11/22/2019 | Bacteria | 110 | Phoenix | No |
| OF-3431-1 | 11/22/2019 | Bacteria | 393 | Phoenix | No |
| OF-3731-1 | 12/27/2019 | Bacteria | 10 | Phoenix | No |
| OF-1981-6 | 12/27/2019 | Bacteria | 771 | Phoenix | Yes |
| OF-2221-1 | 12/27/2019 | Bacteria | 960 | Phoenix | Yes |
| OF-5081-1 | 12/27/2019 | Bacteria | 410 | Phoenix | Yes |
| OF-2841-2 | 12/27/2019 | Bacteria | 5910 | Phoenix | Yes |
| OF-6001-2 | 12/27/2019 | Bacteria | 309 | Phoenix | No |
| OF-4621-1 | 12/27/2019 | Bacteria | 2030 | Phoenix | Yes |
| OF-4621-2 | 12/27/2019 | Bacteria | 31 | Phoenix | No |
| OF-4281-1 | 1/2/2020 | Bacteria | 171 | Phoenix | No |
| OF-0181-5 | 1/2/2020 | Bacteria | 31 | Phoenix | No |
| OF-2581-1 | 1/2/2020 | Bacteria | <10 | Phoenix | No |
| OF-0181-1 | 1/2/2020 | Bacteria | 10 | Phoenix | No |
| OF-2318-1 | 1/2/2020 | Bacteria | <10 | Phoenix | No |
| OF-1061-1 | 1/2/2020 | Bacteria | <100 | Phoenix | No |

2018 Data

| Old Outfall ID | New Outfall ID | Sample date | Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern) | Results E. coli (cfu/100mL) | Name of Laboratory (if used) | Follow-up required? |
|----------------|----------------|-------------|---|-----------------------------|------------------------------|---------------------|
| 214 | OF-5641-018 | 4/16/2018 | Bacteria | 1040 | Phoenix | Yes |
| 216 | OF-5641-016 | 4/16/2018 | Bacteria | 3780 | Phoenix | Yes |
| 218 | OF-0731-001 | 4/16/2018 | Bacteria | 10,500 | Phoenix | Yes |
| 204 | OF-2547-001 | 4/16/2018 | Bacteria | 1440 | Phoenix | Yes |
| 205 | OF-2547-002 | 4/16/2018 | Bacteria | 146 | Phoenix | No |
| NEW_9456 | OF-2547-003 | 4/16/2018 | Bacteria | 2610 | Phoenix | Yes |
| 206 | OF-1091-001 | 4/16/2018 | Bacteria | 1990 | Phoenix | Yes |
| 180 | OF-6361-001 | 4/16/2018 | Bacteria | 813 | Phoenix | Yes |
| 162 | OF-1981-006 | 4/16/2018 | Bacteria | 759 | Phoenix | Yes |
| 164 | OF-2021-001 | 4/16/2018 | Bacteria | 1400 | Phoenix | Yes |
| 14304 | OF-3321-003 | 4/16/2018 | Bacteria | 9800 | Phoenix | Yes |
| New_9445 | OF-1981-008 | 4/16/2018 | Bacteria | 368 | Phoenix | No |
| 435 | OF-5096-003 | 4/16/2018 | Bacteria | 318 | Phoenix | No |
| 443 | OF-5641-044 | 4/16/2018 | Bacteria | 110 | Phoenix | No |
| NEW_13881 | OF-5096-001 | 4/16/2018 | Bacteria | 1270 | Phoenix | Yes |
| 434 | OF-5096-002 | 4/16/2018 | Bacteria | 1300 | Phoenix | Yes |
| 221 | OF-1981-009 | 4/16/2018 | Bacteria | 723 | Phoenix | Yes |
| 222 | OF-5641-007 | 4/16/2018 | Bacteria | 402 | Phoenix | No |
| 305 | OF-5641-008 | 4/16/2018 | Bacteria | 2280 | Phoenix | Yes |
| 306 | OF-5641-009 | 4/16/2018 | Bacteria | 767 | Phoenix | Yes |
| NEW_15104 | OF-0531-007 | 4/16/2018 | Bacteria | 565 | Phoenix | Yes |
| NEW_13895 | OF-1891-010 | 4/16/2018 | Bacteria | 109 | Phoenix | No |
| 225 | OF-3321-001 | 4/16/2018 | Bacteria | 2760 | Phoenix | Yes |
| NEW_13878 | OF-1011-001 | 4/25/2018 | Bacteria | 63 | Phoenix | No |
| 447 | OF-1011-002 | 4/25/2018 | Bacteria | 256 | Phoenix | No |
| 224 | OF-5641-001 | 4/25/2018 | Bacteria | 7700 | Phoenix | Yes |
| 309 | OF-0531-006 | 4/25/2018 | Bacteria | 1500 | Phoenix | Yes |
| 219 | OF-5641-013 | 4/25/2018 | Bacteria | 2760 | Phoenix | Yes |
| 214 | OF-5641-018 | 4/16/2018 | Bacteria | 1040 | Phoenix | Yes |
| 216 | OF-5641-016 | 4/16/2018 | Bacteria | 3780 | Phoenix | Yes |
| 218 | OF-0731-001 | 4/16/2018 | Bacteria | 10,500 | Phoenix | Yes |

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

| Outfall | Sample date | Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern) | Results E. coli (cfu/100mL) | Name of Laboratory (if used) | Follow-up required? |
|--|-------------|---|-----------------------------|------------------------------|---------------------|
| OF-3961-002: #1 Oakwood Ave @ Trout Brook | 8/16/2010 | E. coli | 1660 | Phoenix | Yes |
| OF-3771-013: #2 New Britain Ave @ South St | 8/16/2010 | E. coli | 1150 | Phoenix | Yes |
| OF-5641-022: #3 Ballard Dr @ East Branch Trout Brook | 8/16/2010 | E. coli | 1350 | Phoenix | Yes |
| OF-1981-008: #4 Fern St @ Trout Brook | 8/16/2010 | E. coli | >24,200 | Phoenix | Yes |
| OF-4501-001: #5 Red Top Dr @ Rockledge Brook | 8/16/2010 | E. coli | >24,200 | Phoenix | Yes |
| OF-4131-008: #6 Park Rd @ Kennedy Brook | 8/16/2010 | E. coli | >50 | Phoenix | Result inconclusive |

*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

| Pollutant of concern | Pollutant threshold |
|------------------------------------|--|
| Nitrogen | Total N > 2.5 mg/l |
| Phosphorus | Total P > 0.3 mg/l |
| Bacteria (fresh waterbody) | <ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml |
| Bacteria (salt waterbody) | <ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others |
| Other pollutants of concern | Sample turbidity is 5 NTU > in-stream sample |

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

| Outfall | Status of drainage area investigation | Control measure implementation to address impairment |
|------------------|--|--|
| OF-3321-1 | Initiated IDDE investigations in Nov 2019 due to high bacteria at outfall and sewage odor. In 2020, the recommendation is to CCTV the storm drain. | |
| OF-1981-6 | Initiated IDDE investigations in Nov 2019, the dry weather flow is suspected to be from groundwater infiltration into the deep storm drain. In 2020, further investigations recommended. | |

| | | |
|------------------|--|--|
| OF-1981-8 | Initiated IDDE investigations in Nov 2019 due to high bacteria at outfall and a chlorine detection. In 2020, further investigations recommended include CCTV of select pipes and a check in the summer to see if the public pool or splash pad was the source of the chlorine. | |
|------------------|--|--|

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

| Outfall | Sample Date | Parameter(s) | Results | Name of Laboratory (if used) |
|---------|-------------|--------------|---------|------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

| 1. Catchment ID (DEEP Basin ID) | 2. Category | 3. Rank |
|---------------------------------|-------------|---------|
|---------------------------------|-------------|---------|

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies.

| Outfall / Interconnection ID | Screening / sample date | Ammonia | Chlorine | Conductivity | Salinity | E. coli or enterococcus | Surfactants | Water Temp | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|--------------------------------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

| Outfall / Interconnection ID | Sample date | Ammonia | Chlorine | Conductivity | Salinity | E. coli or Enterococcus | Surfactants | Water Temp | Pollutant of concern |
|------------------------------|-------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|
|------------------------------|-------------|---------|----------|--------------|----------|-------------------------|-------------|------------|----------------------|

3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

| Outfall ID | Receiving Water | System Vulnerability Factors |
|------------|-----------------|------------------------------|
| | | |
| | | |
| | | |

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

| Key Junction Manhole ID | Screening / Sample date | Visual/ olfactory evidence of illicit discharge | Ammonia | Chlorine | Surfactants |
|-------------------------------|----------------------------|--|---------|----------|-------------|
|-------------------------------|----------------------------|--|---------|----------|-------------|

3.3 Wet weather investigation outfall sampling data

| Outfall ID | Sample date | Ammonia | Chlorine | Surfactants |
|---------------|-------------|---------|----------|-------------|
|---------------|-------------|---------|----------|-------------|

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

| Discharge location | Source location | Discharge description | Method of discovery | Date of discovery | Date of elimination | Mitigation or enforcement action | Estimated volume of flow removed |
|-----------------------|--------------------|-----------------------|------------------------|----------------------|------------------------|----------------------------------|--|
|-----------------------|--------------------|-----------------------|------------------------|----------------------|------------------------|----------------------------------|--|

Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

| | |
|--|----------------------|
| Chief Elected Official or Principal Executive Officer | Document Prepared by |
| Print name: | Print name: |
| Signature / Date: | Signature / Date: |